

# **Status report of the VIAQ (Vehicle Interior Air Quality) Informal Working Group**

## **Report to the 71st GRPE session**

Chair: JongSoon Lim, The Republic of Korea

Secretary: Andreas Wehrmeier, OICA

- **VIAQ IWG Meeting since last GRPE**

- **Kick-off VIAQ IWG Meeting**

- Paris, France, 17th March 2015

- **1<sup>st</sup> VIAQ IWG Meeting**

- Geneva, Switzerland, 10th June 2015

## ● VIAQ Background

- **VIAQ issue was raised at the initiative from the Republic of KOREA**
- **The proposal was discussed in GRPE and WP.29 in 2013-2014**
- **WP.29 Mandate**(ECE/TRANS/WP.29/1112)
  - AC.3 endorsed the proposed action plan to, in a first stage, collect information, review existing standards and develop recommendations.
- **GRPE Adoption**(ECE/TRANS/WP.29/GRPE/70)
  - GRPE adopted the proposals for terms of reference to the IWG on VIAQ as reproduced in Annex VI of this report.

## ● Topics/Issues

### ➤ VIAQ Organization

- Chair: JongSoon Lim, The Republic of Korea
- Secretary: Andreas Wehrmeier, OICA

### ➤ Review of VIAQ Terms of Reference

- The scope of the work is to develop a recommendation to harmonize test methods of interior air emissions emitted/generated from interior materials

## ● Work Items

- **Collect Information, Exchange Views on VIAQ Existing Standards**
  - Introduction of National standards from Korea, China, Russia and international standard (ISO) by CPs
  - Comparison of Measurement Methods from OICA
  
- **Work Items**
  - **Test Measurement Modes**

Consider on test mode suitable for the interior air emission to proceed with
  - **Target Measurement Substances**

Many relevant substances(e.g. VOCs) with regard to Interior air quality  
Target measurement substance is required firstly

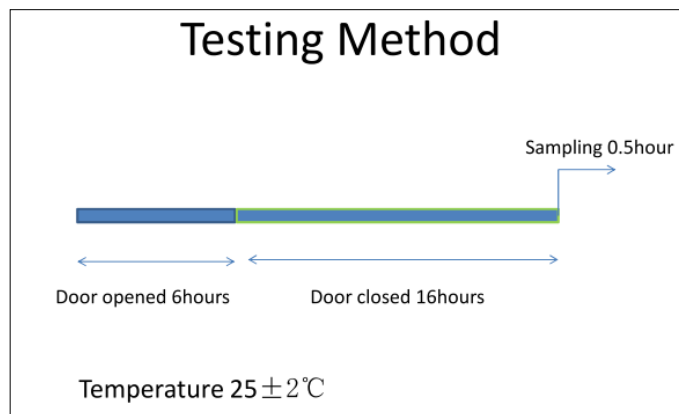
## ➤ Understanding Current VIAQ Test Methods

Time	Temp stabilize Min 12.hr	Ventilation 30min	Close door 2hr	Sampling 15min
Cabin Temp	$25^{\circ}\text{C} \pm 2^{\circ}\text{C}$			

**<KOREA VIAQ Test Method>**

Temperature in vehicle cabin Not controlled 23 °C	Ambient mode:	Parking mode:	Driving mode:
	<ul style="list-style-type: none"> <li>- minimum 8 h</li> <li>- door closed</li> </ul>	<ul style="list-style-type: none"> <li>- door closed</li> <li>- radiators on</li> <li><math>400 \text{ W/m}^2 \pm 50 \text{ W/m}^2</math></li> </ul>	<ul style="list-style-type: none"> <li>- radiators on</li> <li>- door open max. 60 s</li> <li>- fan highest level or air-conditioning regulator on</li> </ul>
Sampling in vehicle cabin	30 min	30 min	30 min
Back-ground sampling	30 min	30 min	30 min

**<ISO 12219-1 VIAQ Test Method>**



**<CHINA VIAQ Test Method>**

**ISSUES CONCERNING AIR QUALITY  
INSIDE THE VEHICLE**

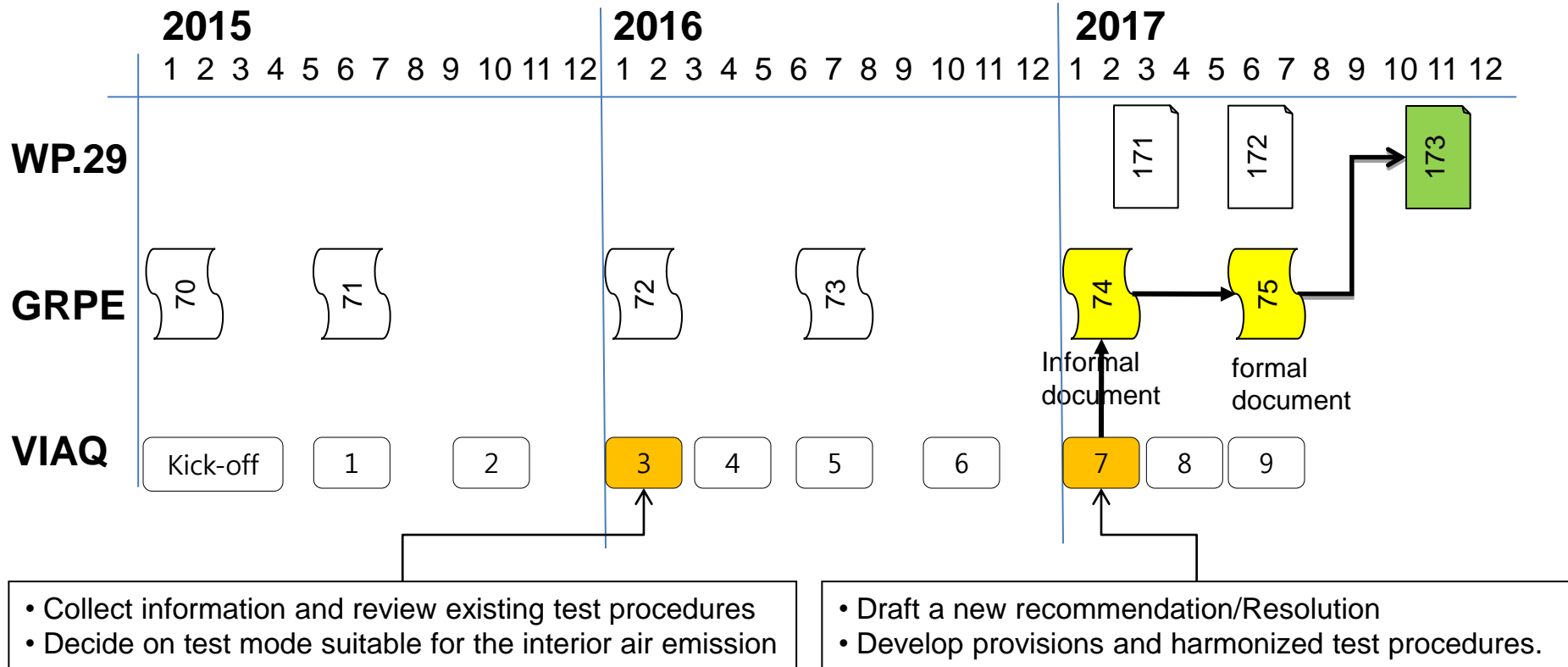
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**<Russian VIAQ Test Method>**

## ● Roadmap



- **January 2017** : Present a final draft report as an informal document to GRPE
- **November 2017** : Possible adoption of Recommendation(R.E.3, SR1 or mutual resolution)

## ● Next VIAQ IWG Meeting

### ➤ 2<sup>nd</sup> VIAQ IWG Meeting

- Paris, France, November 3<sup>rd</sup> - 4<sup>th</sup> 2015

### ➤ 3<sup>rd</sup> VIAQ IWG Meeting

- Geneva, Switzerland, January 13th 2016, during 72<sup>nd</sup> GRPE
- Half a day requested



## ● 71th GRPE Session Report (ECE/TRANS/WP.29/GRPE/71)

### **XV. Vehicles Interior Air Quality (VIAQ) (agenda item 14)**

*Documentation:* Informal document GRPE-71-30

64. The Chair of the IWG on VIAQ reported on the first meeting of the group held prior to GRPE (GRPE-71-30). He provided some information on the organization and road map of the group as well as on the work to be done.

65. The expert from the Russian Federation stated that the work should not only focus on the interior air emissions generated from interior materials but also on the air pollutants entering the vehicle together with the intake air from outside.

66. GRPE considered the inclusion in the scope of interior air pollutants from the outside air as a possible extension of the mandate at a later stage. GRPE acknowledged the progress made by the IWG on VIAQ and noted the request for a meeting room for half a day during the GRPE week in January 2016.

### ● Next VIAQ meeting 71th GRPE Session Report

#### C. Informal meetings in conjunction with the next GRPE session

74. The informal meetings, subject to confirmation:

<i>Date</i>	<i>Group</i>	<i>Acronym</i>	<i>Time</i>
Monday 11 January 2016	Electric Vehicles and the Environment	EVE	9.30 a.m. – 12.30 p.m.
	Worldwide harmonized Light vehicles Test Procedure	WLTP	2.30 p.m. – 5.30 p.m.
Tuesday 12 January 2016	Environmental and Propulsion Performance Requirements of L-category vehicles	EPPR	9.30 a.m. – 12.30 p.m. 2.30 p.m. – 5.30 p.m.
	Worldwide harmonized Light vehicles Test Procedure	WLTP	9.30 a.m. – 12.30 p.m. 2.30 p.m. – 5.30 p.m.
Wednesday 13 January 2016	Gaseous Fuelled Vehicles	GFV	9.30 a.m. – 12.30 p.m.
	Particulate Measurement Programme	PMP	9.30 a.m. – 12.30 p.m.
	Vehicle Interior Air Quality	VIAQ	9.30 a.m. – 12.30 p.m.

75. The agendas of these meetings will be prepared by the respective secretaries and distributed to the members of each group prior to each meeting.